

**ASBESTOS,
LEAD BASED PAINT
& MOLD INSPECTION
AT
CUMBERLAND CITY HALL BUILDING
402 WEST MAIN STREET,
CITY OF CUMBERLAND,
HARLAN COUNTY, KENTUCKY**



12 May 2014

Ms. Whitney Chesnut
Cumberland Valley Area Development District
P.O. Box 1740
London, KY 40743

Mayor Carolyn Elliot
City of Cumberland
City Hall
402 West Main Street
Cumberland, Kentucky 40823

Re: Asbestos, Lead Based Paint, and Mold Inspection Report
City Hall Building
1509 East Main Street
Cumberland, Harlan County, Kentucky
AMEC Project Number 779980001.0003.010

Dear Ms. Chesnut and Ms. Elliot:

AMEC Environment & Infrastructure, Inc. (AMEC) is pleased to submit this report summarizing the results of the Asbestos-Containing Material (ACM), Lead Based Paint (LBP), and Mold Inspection performed at the Cumberland City Hall Building, 402 West Main Street, Cumberland, Harlan County, Kentucky. The property location is depicted on **Figure 1** and an aerial showing the site layout is included as **Figure 2**.

1.0 PROJECT INFORMATION

1.1 Background

AMEC was authorized by Cumberland Valley Area Development District to perform sampling of building materials for ACM, LBP, and Mold associated with the Cumberland City Hall for the City of Cumberland. The Cumberland City Hall was constructed in approximately 1930. Fifty-two samples of twenty suspect ACMs were obtained from the Cumberland City Hall. Sixteen paint chip samples were collected for LBP in the Cumberland City Hall. AMEC personnel inspected the building for visible surface mold; however, no sampling was performed.

The field survey was performed by Mr. Phillip Applegate a licensed asbestos inspector, a licensed lead based paint risk assessor in the State of Kentucky and a registered professional industrial hygienist. Assisting Mr. Applegate was Mr. Eric Robinson (Chase Environmental) who completed field notes and sketches during sampling activities.

1.2 Building Description

The subject property consists of a two story building with a partial basement. The Cumberland City Hall is a brick veneer structure constructed on a crawlspace and partial basement built in approximately 1930. The first floor houses the City Hall and the second floor consisted of a large apartment. The building contained approximately 4,000 square feet of gross space. The existing roof appeared to be constructed of built up or rolled roofing materials.

2.0 SURVEY PROCEDURES AND RESULTS FOR ASBESTOS

2.1 Visual Inspection

A total of 52 samples were collected from 20 different homogeneous sampling areas in the building on March 20, 2014. In most cases at least two samples of each material were collected. Exceptions were related to materials with a limited quantity or materials that were not safely accessible from multiple access points.

The asbestos survey was performed by Kentucky accredited building inspector Mr. Phil Applegate, in general accordance with a sampling protocol appropriate for the renovation or demolition of existing structures. The sampling protocol was modeled after U.S. Environmental Protection Agency (EPA) regulation 40 CFR 763. The approximate quantity of materials was determined by field measurements.

Plans and specifications for the structures were not available for review by AMEC. Consequently, on site personnel relied on visual evaluations during our on-site assessment to identify suspect ACM's. Basic floor plans were provided for the first floor level. AMEC created sketches for the basement and second floor level and arbitrary numbers were assigned to rooms on each floor to aid in identifying sample locations and location of confirmed ACM's. **Figure 3, Figure 4, and Figure 6** include asbestos sample locations for the first and second floor of the building.

2.2 Bulk Sampling

The bulk sampling procedures utilized for the collection of suspect materials first required the establishment of a homogeneous sampling area (HSA). A homogeneous area (HA) is defined by AHERA as a material suspected of containing asbestos that is of the same color and texture and that appears to have similar uses, installation dates, etc.

The individual sampling areas were then examined and representative samples of the suspect materials were randomly taken. The collected bulk samples were shipped under chain-of-custody protocol to EMSL Analytical Laboratory in Cinnaminson, New Jersey for analysis by Polarized Light Microscopy/Dispersion Staining (PLM) in accordance with EPA testing methods. The samples were analyzed by the PLM method in accordance with the EPA Method Determination of Asbestos in Bulk

Building Materials (EPA 600/R-93/116). EMSL Analytical Laboratory is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program for bulk asbestos identification by PLM. PLM is an analytical method for asbestos identification that depends on the unique optical properties of mineral forms in the samples, and specifically identifies the various asbestos types. PLM is the mandated method of analysis by EPA and OSHA for asbestos identification in bulk samples. The detection limit for this type of analysis is approximately one percent (by volume). Materials containing more than one percent asbestos are considered to be ACM. Laboratory analytical data reports and chain-of-custody forms are provided in **Attachment A**.

The following suspect materials (materials thought to possibly contain asbestos) were sampled on-site during the survey. The roof was not assessed as part of this survey because of accessibility issues.

Cumberland City Hall

1. Wall Plaster (Walls & Ceilings - 1st & 2nd Floor Conference Room, Bedroom 1, Pantry, Bedrooms 2, and Living Room)
2. White Duct Tape (Metal Ductwork -Basement South Area on Metal Ductwork)
3. White Covering (Above Ceilings -1st Floor Lobby & Clerk's Office)
4. White Material (Duct Chase – 2nd Floor Bedroom #3)
5. Gasket Material (Abandoned Furnace – Basement)
6. Drywall Sheeting (Ceiling- Basement)
7. 2'x4' fissured Pinhole Tile (Ceiling -1st Floor Lobby, Clerk's Office and Conference Room)
8. Blown-In Insulation (Lobby, Above Vault, and Above Conference Room – 1st Floor)
9. Interior Window Glazing (Lobby – 1st Floor)
10. Green w/Black Backing Wallpaper (Kitchen Wall – 2nd Floor)
11. Off White Floor Tile (Between Subfloor – Clerk's Office and Lobby – 1st Floor)
12. Popcorn Wall Texture (Clerk's Office – 1st Floor)
13. Popcorn Ceiling (Bathroom – 1st Floor)
14. Green Pattern Sheet Vinyl (Bathroom – 1st Floor)
15. Wall Board-Drywall (Bedroom # 2 – 2nd Floor)
16. 9" Tan/Brown Floor Tile & Mastic (Hall, Hall Room #1, and Bathroom #2 – 2nd Floor)
17. Cream Sheet Vinyl (Bathroom #1- 2nd Floor)
18. Off White Sheet Vinyl (Bathroom #2 – 2nd Floor)
19. 12" Light Gray Mottled Floor Tile & Mastic (Hall – 2nd Floor)
20. Exterior Window Glazing (Window – 2nd Floor)

2.3 Bulk Sample Results

Based upon our visual observations, bulk sampling of suspect materials and subsequent microscopic analysis, twenty-one of the HSAs were reported as having greater than one percent asbestos. A summary of the identified ACMs are presented in **Table 1**.

Table 1. Summary of Asbestos-Containing Materials

Sample No.	HSA Sampled	Sample Location	Estimated Quantities	Friable
200-01, 02, 03	White Duct Tape	Basement South Area	10 square feet	Yes
201-01, 02, 03	White Covering (on ductwork)	1 st Fl. Lobby South, South Center, & Center Areas Above Ceilings	250 square feet visible*	Yes
202-01	White Material (inside wood pipe chase)	2 nd Floor Bedroom #3 Duct Chase East Wall	2 square feet	Yes
300-01, 02	Furnace Gasket Material	Basement Abandoned Furnace	3 square feet	No
306-01, 02, 03	Off White Floor Tile & Mastic	First Floor Between Sub Floor Clerk's Office, Lobby South Area, & Lobby West Area	600 square feet	No
311-01, 02, 03	9" Tan Brown Floor Tile & Mastic	2 nd Floor Hall, Hall Room, & Bathroom #2	300 square feet	No
312-01, 02	Cream Sheet Vinyl	2 nd Floor Bathroom #1	30 square feet	No
314-01, 02	12" Light Gray Mottled Floor Tile & Mastic	2 nd Floor Hall Near Skylight & North Hall Area	170 square feet	No
315-01,02 ,03	Exterior Window Glazing	2nd Floor East Side South Window, East Side North Window, & North Side Window	230 square feet	Yes

* Estimated total based on accessible areas above two ceilings. The quantity maybe more once ceilings are demolished.

The current EPA regulation for the removal of asbestos in buildings, the National Emission Standard for Hazardous Air Pollutants (NESHAP, 40 CFR 61, Subpart M) requires that regulated asbestos-containing materials (RACMs) be properly removed prior to performing renovation and demolition activities which would disturb them. RACM is generally defined as materials, which contain greater than one- percent asbestos and are one of the following:

1. Friable (i.e. when dry, can be reduced to powder by hand pressure).
2. Non-friable materials which have become friable.
3. Category I non-friable materials which have been sanded, ground, cut, or abraded.

4. Category II non-friable materials which are expected to become friable due to the forces expected to act on them during the course of demolition.

A friable asbestos-containing material is defined as any material that contains more than one percent asbestos by weight that hand pressure can crumble, pulverize, or reduce to powder, when dry. The EPA categorizes non-friable materials into two categories. Category I non-friable materials are specifically defined as resilient floor coverings, asphalt-based bituminous roofing materials, packings, construction mastics, and gaskets. Category II non-friable materials include all other non-friable materials such as asbestos cement products, vibration dampeners, caulking, putties, etc.

Window glazing results were positive for the presence of asbestos on the second floor. The individual window frames throughout the second floor of the building showed a variety of repair methods including glass, wood, and empty panes. Therefore, due to this variation, it is recommended that all window glazing for the second floor windows should be treated as asbestos containing building material.

The roof was not safely accessible and was not sampled. The roofing materials should be considered as ACM's until they can be sampled or should be removed as ACM.

All asbestos materials in occupied spaces should be managed in place, in good condition until they are removed from the building. Damaged ACM should be repaired and maintained in good condition.

3.0 SURVEY PROCEDURES AND RESULTS FOR LEAD BASED PAINT

A limited lead based paint survey was conducted on March 21, 2014 for the Cumberland City Hall Building. Sixteen paint chip (coating) samples were collected from the interior and exterior of the City Hall Building. The samples were delivered by courier to EMSL Analytical, Inc. located in Cinnaminson, New Jersey, utilizing chain-of-custody procedures to document the handling of the samples. The samples were analyzed using Atomic Absorption Spectroscopy (AAS) in accordance with EPA Method SW 846, 3050B/7000B. EMSL Analytical, Inc. is accredited through the American Industrial Hygiene Association (AIHA) Environmental Lead Laboratory Approval Program (ELLAP) (Certification # 100194).

The Department of Housing and Urban Development (HUD) *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* (June 1995), and the EPA *Requirements for Lead-Based Paint Activities in Target and Child-Occupied Facilities* (40 CFR Part 745) provide regulatory and industry guidelines for conducting lead-based paint sampling. Both HUD and EPA have set a threshold of 1.0 milligrams per square centimeter (mg/cm²) by X-Ray Fluorescence (XRF) analysis, and 5,000 parts per million (ppm), or 0.5% by weight, for defining lead-based paint. Additionally, the Consumer Product Safety Commission (CPSC) defines lead-free paint as containing no greater than 0.009% lead by weight. OSHA has no "lower threshold" for exposure of lead and therefore any

remediation contractor should be informed of the results of our survey so that the applicable OSHA requirements and regulations are followed.

The results of the laboratory testing are summarized in **Table 2**. Sample locations are depicted on **Figure 5** (first floor) and **Figure 7** (second floor).

**Table 2 Cumberland KY City Hall
Summary of Lead Based Paint Test Results**

Sample	Location	Component	Substrate	Condition	% wt.
P-1	2 nd Floor Kitchen	Green Paint on Window Sill	Wood	Poor	0.43
P-2	2 nd Floor Bedroom #4	Yellow Paint on Baseboard	Wood	Poor	0.19
P-3	2 nd Floor Bedroom #2	White Paint on Wood Shelf	Wood	Poor	0.016
P-4	2 nd Floor Bedroom #3	White Paint on Wood Door	Wood	Poor	0.12
P-5	2nd Floor Bedroom #3	White/Brown Paint on Wood Window Frame	Wood	Poor	1.2
P-6	2 nd Floor West Main Hall	Off White Paint on Wall	Plaster	Poor	0.12
P-7	2 nd Floor Den/Living Room	Green & White Paint on Wall	Plaster	Poor	0.45
P-8	2 nd Floor Bedroom #6	Brown & Red Paint on Wall	Plaster	Poor	0.095
P-9	1 st Floor Lobby	White/Green Paint on Wall	Plaster	Good	0.23
P-10	1 st Floor Clerk's Office	Brown Paint on Wall	Drywall	Good	<0.011
P-11	1 st Floor Hall	Beige Paint on Wood Trim	Wood	Good	<0.018
P-12	1 st Floor Bathroom	Yellow Paint on Wall	Plaster	Good	<0.041
P-13	1 st Floor Hall	Mauve Paint on Hall Door	Wood	Good	0.18
P-14	Exterior Front Step of Building	Mauve Paint on Front Step	Concrete	Good	<0.010
P-15	Exterior Front Brick Wall of Building	Tan Paint on Front Brick Wall	Brick	Fair	0.064
P-16	Exterior East Side of Building	Yellow Paint on Concrete Step	Concrete	Poor	<0.010

Bold results are above the EPA/HUD definition of "lead based paint".

OSHA has never identified an acceptable lead concentration in paint and considers any detectable concentration to be a potential hazard for workers. Therefore, the Contractor should be advised that it is his responsibility to protect his employees and comply with OSHA lead in construction regulations.

The disposal of waste generated during any restoration, renovation, or demolition operations, including items coated with lead paint, is regulated by EPA Standard 40 CFR 261, Subpart C. This regulation requires that a Toxicity Characteristic Leaching Procedure (TCLP) test be utilized to determine if the lead paint is considered hazardous waste. A material is considered hazardous if it is ignitable, reactive, corrosive, or characteristically toxic. (e.g. lead)

AMEC has provided the following considerations for ongoing management of LBP.

- All contractors and employees should be alerted to the presence and location of the identified and presumed LBP and hazards, in accordance with applicable OSHA regulations. It is recommended that a qualified LBP contractor perform all abatement.
- Work practices that disturb LBP shall comply with the OSHA Lead in Construction Regulations. LBP shall be removed if activities will create airborne lead levels that exceed the OSHA action limit of 30 micrograms per cubic meter (e.g. negative exposure assessment). Workers shall wear personal protective equipment (e.g. respirators, suits) until the negative exposure assessment is completed.
- Activities that have the potential to create significant airborne dust/vapor levels (i.e. torch cutting, abrasive mechanical saw cutting, dry sanding, and abrading) should not be utilized for the removal of lead painted surfaces. If these types of methods are used on LBP surfaces, the contractor shall implement worker protection, work area containment, and exposure monitoring. If less obtrusive methods (i.e., machine demolition, chemical stripping or component removal) are implemented, then the contractor should be notified and informed of the presence of lead containing surfaces, and contractor compliance to applicable portions of the OSHA Lead in Construction Regulations will be necessary.
- All LBP must be characterized and disposed of in accordance with the Federal, State or Local regulations. Recycling of painted metal components is typically exempt from special lead containing or lead contaminated disposal requirements as long as the paint remains intact to its substrate.

- Representative parts of the waste stream may require characterization by the TCLP analytical method dependant on the finalized scope of work for the project.

4.0 SURVEY PROCEDURES FOR MOLD

A limited visual assessment of mold was conducted on March 21, 2014 in the Cumberland City Hall. The City Hall Building is a two story structure that contains unoccupied apartments on the second floor and occupied City Hall Offices on the first floor. The unoccupied second floor had areas of water intrusion from roof leaks and missing window panes. Areas of mold growth were observed on the second floor of the building. The major area of mold was identified on the 2nd floor hallway where the roof had collapsed. There was heavy water damage on the adjacent ceilings that surrounded a skylight in the ceiling. The basement of the building contained two air handling units that did not contain air filters. The covers that provide the access to the air filter slots were missing or not attached to the unit allowing the units to draw unfiltered air through the units to the first floor occupied areas. The basement showed some signs of previous water intrusions; however, no areas of apparent active visible mold growth were found during the visual inspection.

4.1 Background Information on Fungi and Molds

Background Information on Fungi and Molds

In accordance with the current consensus of federal agencies such as the EPA, OSHA, National Institute of Occupational Safety and Health (NIOSH), and Centers for Disease Control (CDC) and industry organizations such as the American Industrial Hygiene Association (AIHA), American Conference of Governmental Industrial Hygienists (ACGIH), and American College of Environmental Medicine (ACOEM), molds are present everywhere (ubiquitous) in the environment (indoors and outdoors) and the mere presence of mold spores detected on an air sample and/or tape sample is not necessarily indicative of a potential hazardous condition. Mold spores can be found in almost every environment on the planet.

Currently, the consensus is that there are no known quantities of fungi or molds that would be considered acceptable or unacceptable for indoor environments with respect to health. This is due to the variability of human responses to molds and/or other biological agents and the lack of relevant scientific studies. In addition, fungi and molds are living organisms and are affected by environmental factors such as moisture, temperature, light, food sources, competition from other organisms, etc. As such, the mere presence of a mold that is known to produce toxic by-products and is a known allergen may not necessarily be an immediate health hazard if the mold is not being affected by factors that would cause it to sporulate or release its by-products. Therefore, there are currently no permissible exposure limits or threshold limit values for exposures to molds. However, the identification of mold growth in indoor environments should be remediated because mold

physically destroys the building materials it is growing on, mold growth is unsightly and may produce offensive odors, and may potentially sensitize and produce responses in allergic individuals.

Molds and other fungi affect humans by three ways: allergic reactions, infections, and toxicity. According to the ACOEM, only about 5 percent of the human population is predicted to exhibit allergic symptoms from molds over their lifetime and that fungi are rarely significant pathogens for humans. Some molds that grow indoors may, under certain conditions, produce by-products which can be considered toxic to living cells and organisms. However, most cases of toxicity are based upon ingestion or inhalation of significantly large quantities of spores through occupational exposures, e.g., farm workers working with large quantities of grains.

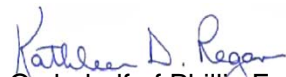
4.2 Mold Survey Conclusions and Recommendations

Mold growth was observed in several areas on the 2nd floor of the City Hall Building at the time of the survey. It is anticipated that if surface samples and airborne mold spore samples if collected would indicate elevated mold spore counts and mold growth were present. Airborne spore levels would be expected to be elevated inside the building when compared to outside levels; however, collection of samples for laboratory analysis would be required to confirm. The mold growth is likely due to the roof leaks and other openings that allowed water intrusions to occur. AMEC recommends that employees or contractors be made aware of the potentially elevated mold levels before entering the second floor areas of the building.

We appreciate the opportunity to provide the CVADD with our services. Should questions arise concerning this report, or if we may be of further service, please contact us at your convenience.

Sincerely,

AMEC ENVIRONMENT & INFRASTRUCTURE, INC.



On behalf of Phillip E. Applegate with permission
Senior Environmental Tech V
Kentucky Asbestos Inspector
P13-12-2579



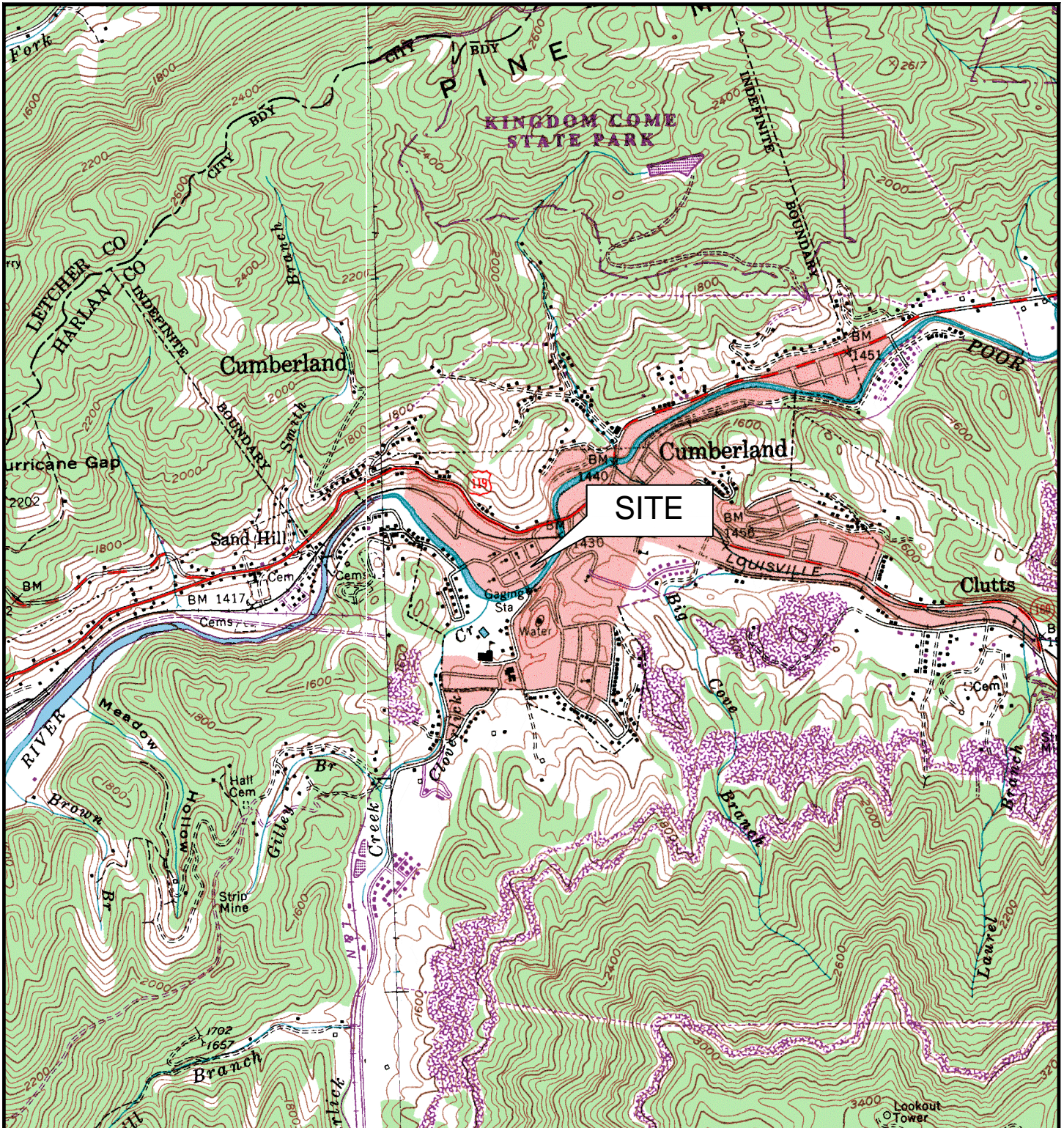
Andrew G. Shust
Senior Associate Scientist



Sarah Donaldson
Senior Project Manager

Enclosures

FIGURES



SOURCE: USGS 7.5' TOPOGRAPHIC QUADRANGLE MAP,
LOUELLEN, KY 1954; PHOTOINSTEPECTED 1982;
PHOTOREVISED 1978.
BENHAM, KY.-VA. 1954; PHOTOREVISED 1979.

0 1000 2000
SCALE IN FEET



2456 Fortune Drive, Suite 100
Lexington, Kentucky 40509
Phone: (859) 255-3308

TOPOGRAPHIC MAP
CITY OF CUMBERLAND CITY HALL
402 WEST MAIN STREET
CUMBERLAND, KY 40823

PROJECT NUMBER: 779980001.0003.010

SCALE	1" = 2000'
DATE	05/08/2014
DRAWN BY	CSRP
APPROVED BY	SMD

FIG.
1

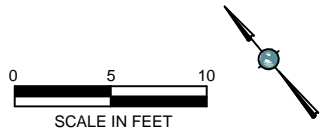
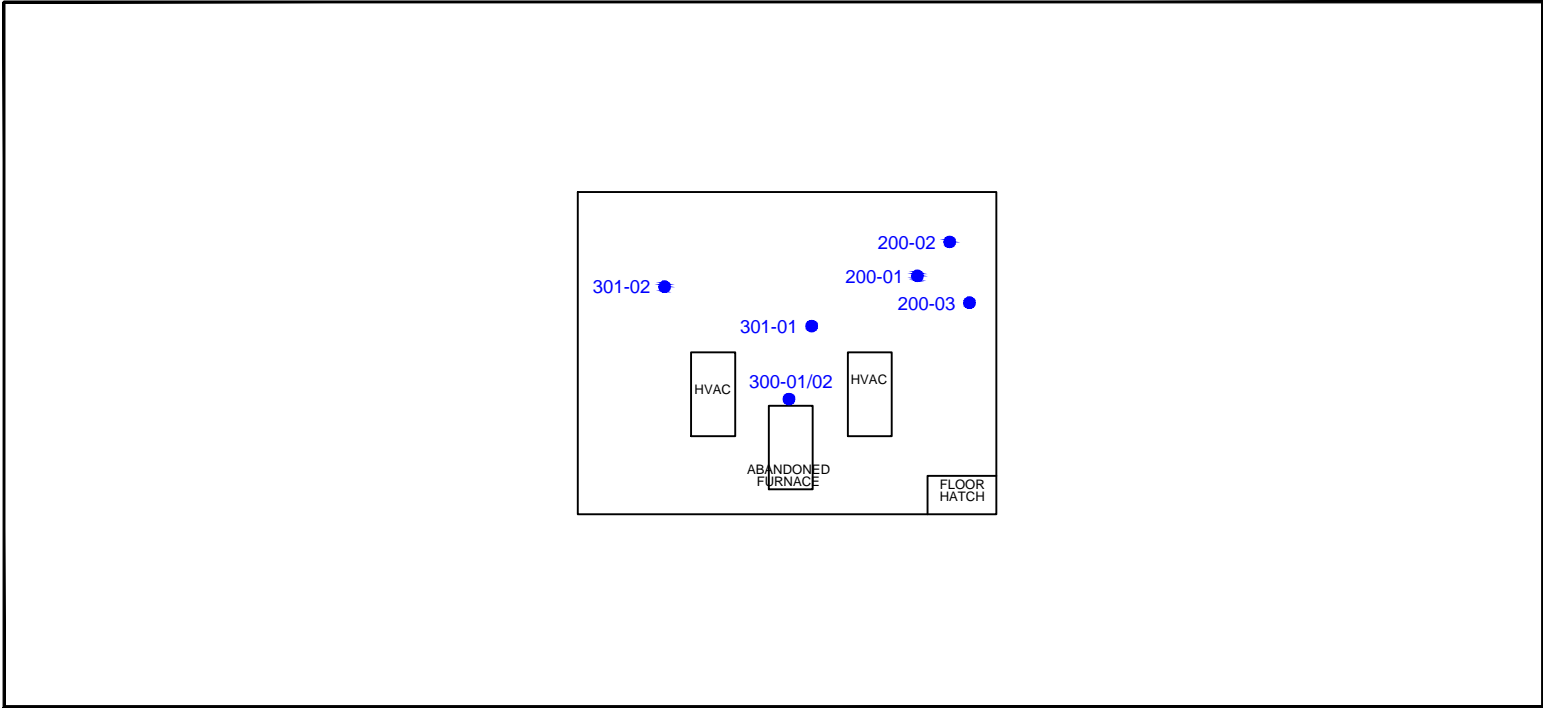


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Lexington, Kentucky 40509
Phone: (859) 255-3308

AERIAL PHOTOGRAPH
CITY OF CUMBERLAND CITY HALL
402 WEST MAIN STREET
CUMBERLAND, KY 40823
PROJECT NUMBER: 779980001.0003.010

SCALE	1" = 100'
DATE	05/08/2014
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**FIG.
2**



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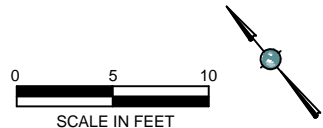
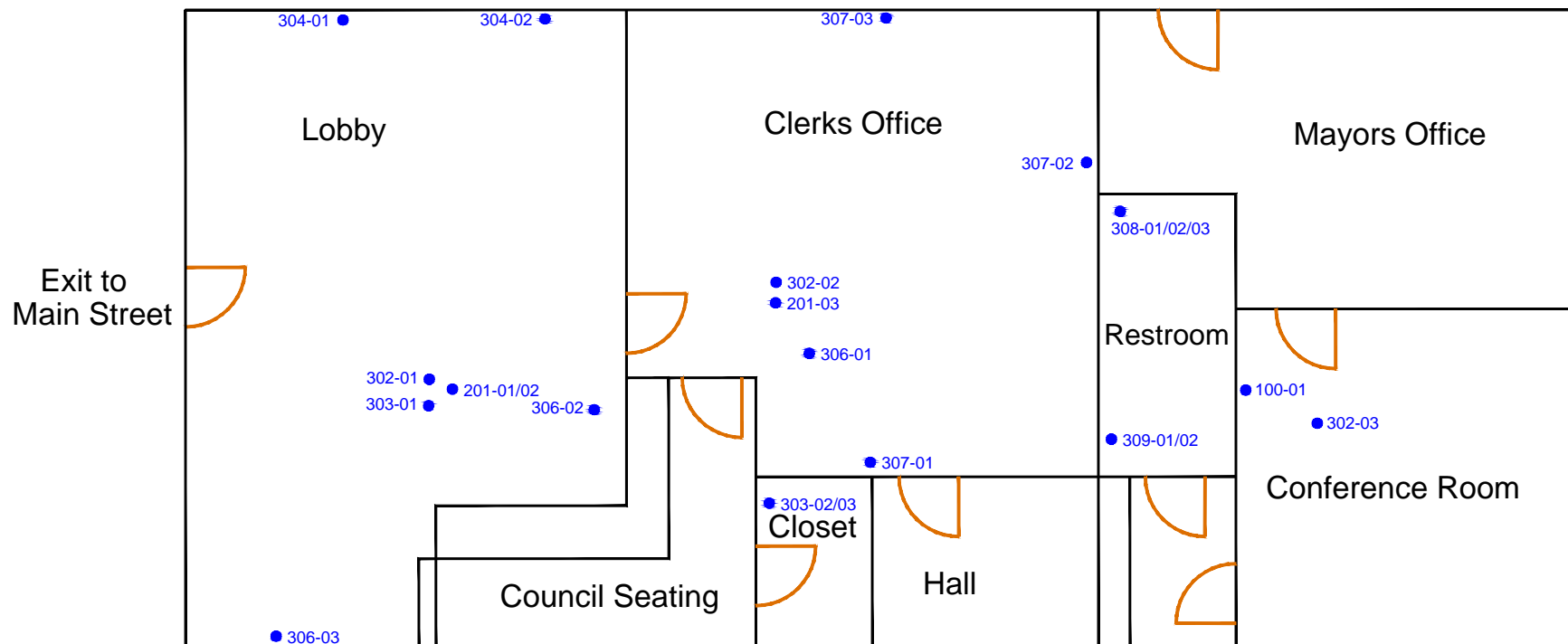
BASEMENT ASBESTOS SAMPLE LOCATIONS

CITY OF CUMBERLAND CITY HALL
402 WEST MAIN STREET
CUMBERLAND, KY 40823

PROJECT NUMBER: 779980001.0003.010

SCALE	1" = 10'
DATE	05/12/2014
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FIG.
3



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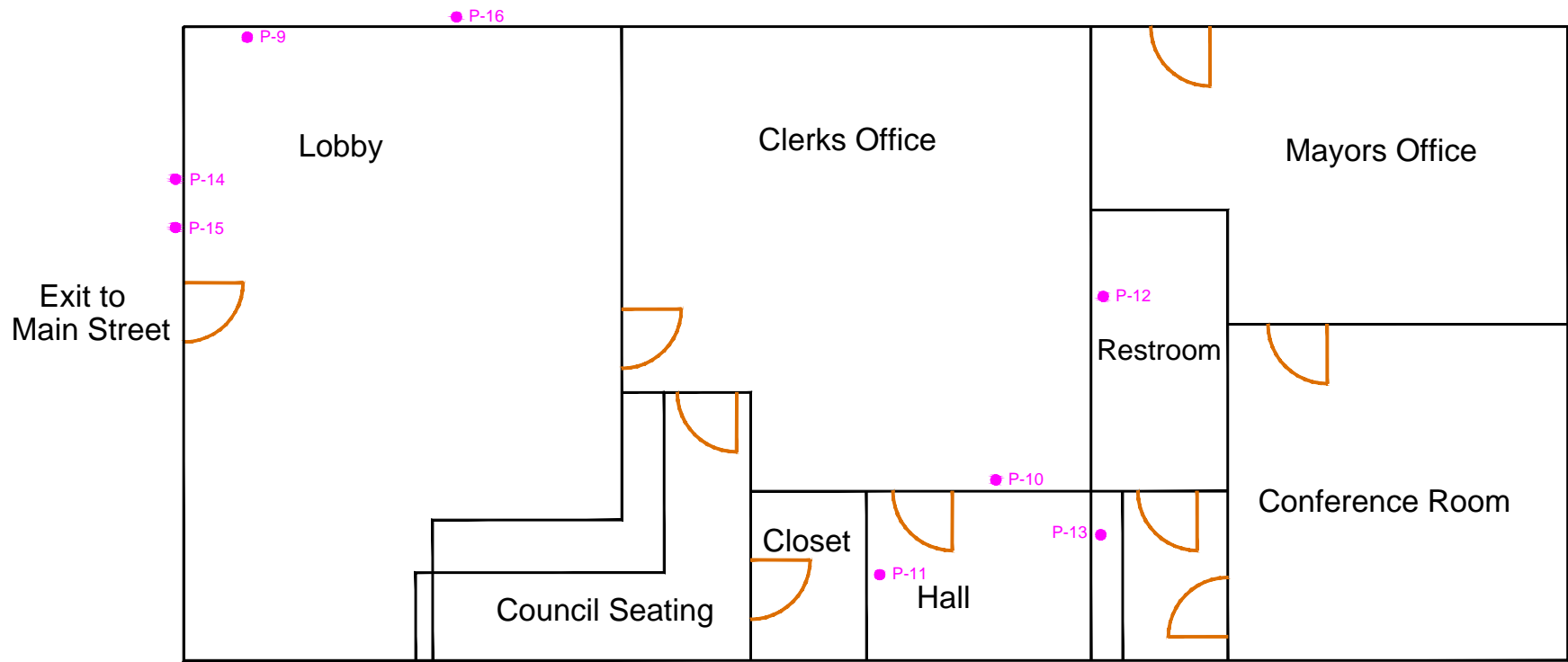
1ST FLOOR ASBESTOS SAMPLE LOCATIONS

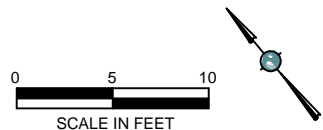
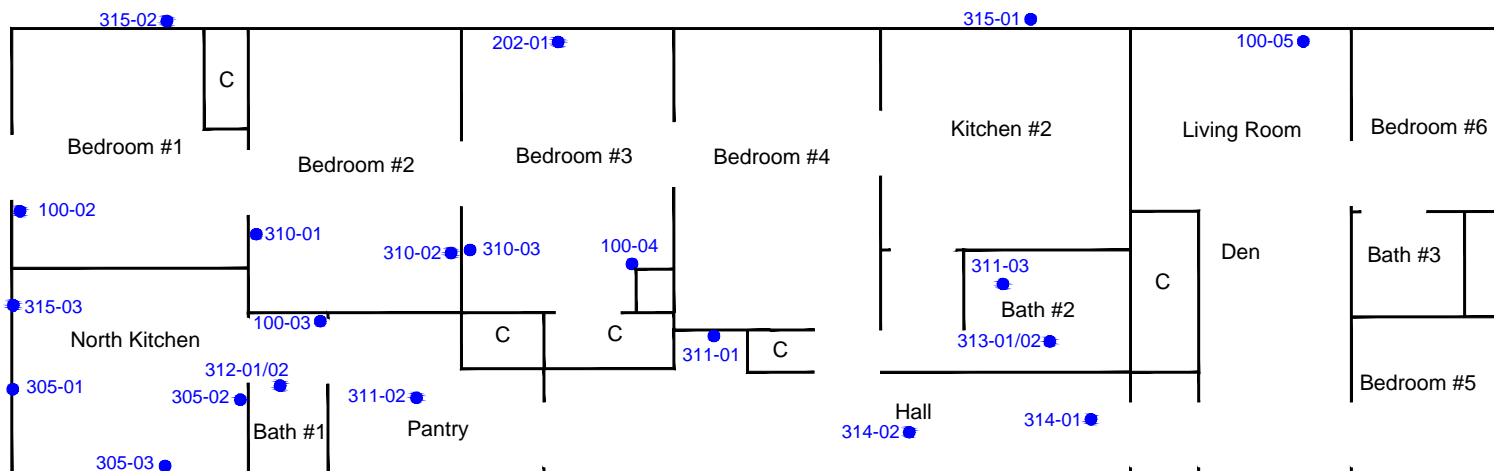
CITY OF CUMBERLAND CITY HALL
 402 WEST MAIN STREET
 CUMBERLAND, KY 40823

PROJECT NUMBER: 779980001.0003.010

SCALE	1" = 10'
DATE	05/08/2014
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FIG.
4





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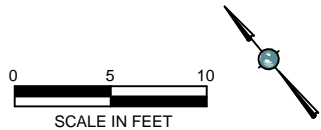
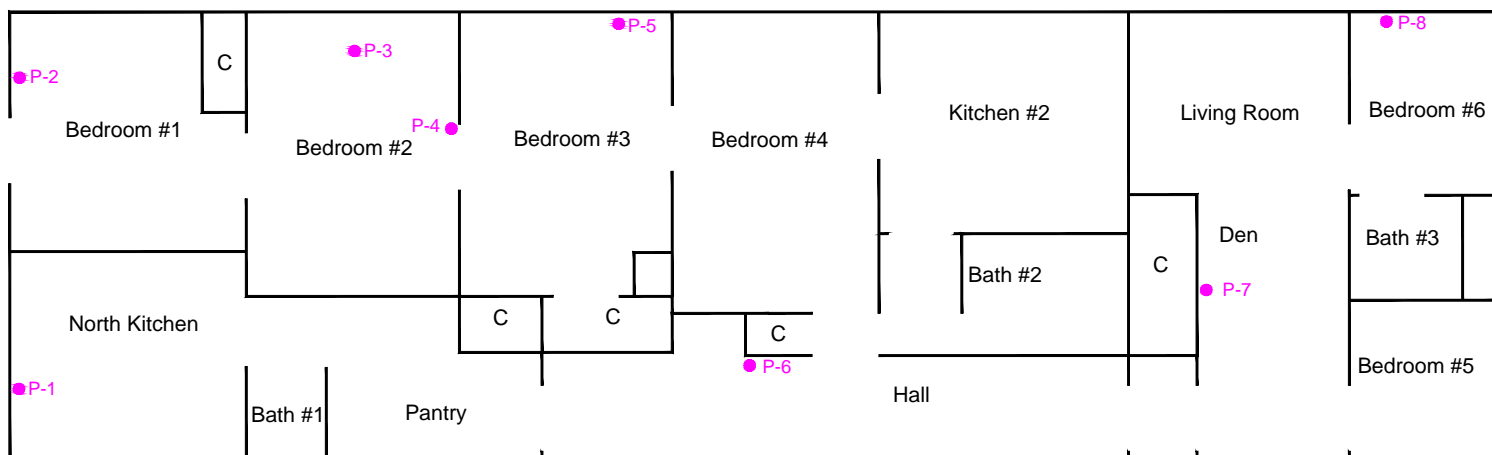
2ND FLOOR ASBESTOS SAMPLE LOCATIONS

CITY OF CUMBERLAND CITY HALL
 402 WEST MAIN STREET
 CUMBERLAND, KY 40823

PROJECT NUMBER: 779980001.0003.010

SCALE	1" = 10'
DATE	05/08/2014
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**FIG.
6**



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2ND FLOOR PAINT SAMPLE LOCATIONS

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402 WEST MAIN STREET
CUMBERLAND, KY 40823

PROJECT NUMBER: 779980001.0003.010

SCALE	1" = 10'
DATE	05/08/2014
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**FIG.
7**

ASBESTOS BULK LABORATORY ANALYSIS SHEETS

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com>cinnaslab@EMSL.com

EMSL Order: 041407328
 CustomerID: AMEC99
 CustomerPO: 779980001.0003
 ProjectID:

Attn: **Phillip Applegate**
AMEC E&I, Inc.
11003 Bluegrass Parkway
690 Commonwealth Center
Louisville, KY 40299

Phone: (502) 267-0700
 Fax: (502) 267-5900
 Received: 03/24/14 9:00 AM
 Analysis Date: 3/26/2014
 Collected: 3/20/2014

Project: 779980001.0003.10 / Cumberland, KY / City Hall

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
100-01-Skim Coat 041407328-0001	1st Floor Conference Rm N Wall - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 100					
100-01-Base Coat 041407328-0001A	1st Floor Conference Rm N Wall - Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 100					
100-02-Skim Coat 041407328-0002	2nd Floor Room #1 N Wall - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 100					
100-02-Base Coat 041407328-0002A	2nd Floor Room #1 N Wall - Plaster	Gray Fibrous Homogeneous	3% Hair	97% Non-fibrous (other)	None Detected
HA: 100					
100-03-Skim Coat 041407328-0003	2nd Floor Pantry Room - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 100					
100-03-Base Coat 041407328-0003A	2nd Floor Pantry Room - Plaster	Gray Fibrous Homogeneous	4% Hair	96% Non-fibrous (other)	None Detected
HA: 100					
100-04-Skim Coat 041407328-0004	2nd Floor Bedroom #3 Chimney Wall - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 100					

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 03/26/2014 14:12:38

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com>cinnaslab@EMSL.com

EMSL Order: 041407328
CustomerID: AMEC99
CustomerPO: 779980001.0003
ProjectID:

Attn: **Phillip Applegate**
AMEC E&I, Inc.
11003 Bluegrass Parkway
690 Commonwealth Center
Louisville, KY 40299

Phone: (502) 267-0700
Fax: (502) 267-5900
Received: 03/24/14 9:00 AM
Analysis Date: 3/26/2014
Collected: 3/20/2014

Project: 779980001.0003.10 / Cumberland, KY / City Hall

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
100-04-Base Coat 041407328-0004A	2nd Floor Bedroom #3 Chimney Wall - Plaster	Gray Fibrous Homogeneous	2% Cellulose	98% Non-fibrous (other)	None Detected
HA: 100					
100-05-Skim Coat 041407328-0005	2nd Floor Living Room East Wall - Plaster	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 100					
100-05-Base Coat 041407328-0005A	2nd Floor Living Room East Wall - Plaster	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 100					
200-1 041407328-0006	Basement S. Area on Metal Duct Work - White Duct Tape	Gray/White Fibrous Homogeneous		55% Non-fibrous (other)	45% Chrysotile
HA: 200					
200-2 041407328-0007	Basement S. Area on Metal Duct Work - White Duct Tape				Stop Positive (Not Analyzed)
HA: 200					
200-3 041407328-0008	Basement S. Area on Metal Duct Work - White Duct Tape				Stop Positive (Not Analyzed)
HA: 200					
201-1 041407328-0009	1st Fl. Lobby S Ctr Area (Above 2 Ceilings) - White Covering	White Fibrous Homogeneous		35% Non-fibrous (other)	65% Chrysotile
HA: 201					

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EMSL Order: 041407328
CustomerID: AMEC99
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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	%	Non-Asbestos		Asbestos
				Fibrous	% Non-Fibrous	% Type
201-2 041407328-0010	1st Fl. Lobby Ctr Area (Above 2 Ceilings) - White Covering					Stop Positive (Not Analyzed)
HA: 201						
201-3 041407328-0011	1st Fl. Clerks Of. N Ctr Area (Above 2 Ceilings) - White Covering					Stop Positive (Not Analyzed)
HA: 201						
202-1 041407328-0012	2nd Fl. Bedroom #3 Duct Chase E Wall - White Material	Gray Fibrous Homogeneous			50% Non-fibrous (other)	50% Chrysotile
HA: 202						
300-1 041407328-0013	Bsmt Abandoned Furnace - Gasket Material	Red Fibrous Homogeneous			75% Non-fibrous (other)	25% Chrysotile
HA: 300						
300-2 041407328-0014	Bsmt Abandoned Furnace - Gasket Material					Stop Positive (Not Analyzed)
HA: 300						
301-1 041407328-0015	Bsmt Ceiling Ctr Area - Drywall Sheeting	Brown/White Fibrous Homogeneous	15%	Cellulose	85% Non-fibrous (other)	None Detected
HA: 301						
301-2 041407328-0016	Bsmt Ceiling N Ctr Area - Drywall Sheeting	Brown/White Fibrous Homogeneous	20%	Cellulose	80% Non-fibrous (other)	None Detected
HA: 301						

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Sample	Description	Appearance	%	Non-Asbestos		Asbestos
				Fibrous	Non-Fibrous	% Type
302-1 041407328-0017	1st Flr S Ctr Area Lobby - 2 x 4 Fissured Pinhole Ceiling Tile	Gray/White Fibrous Homogeneous	40% 40%	Cellulose Min. Wool	20% Non-fibrous (other)	None Detected
HA: 302						
302-2 041407328-0018	1st Flr S Ctr Area Clerks Office - 2 x 4 Fissured Pinhole Ceiling Tile	Gray/White Fibrous Homogeneous	40% 40%	Cellulose Min. Wool	20% Non-fibrous (other)	None Detected
HA: 302						
302-3 041407328-0019	1st Flr S Ctr Area Conf. Area - 2 x 4 Fissured Pinhole Ceiling Tile	Gray/White Fibrous Homogeneous	60% 30%	Cellulose Min. Wool	10% Non-fibrous (other)	None Detected
HA: 302						
303-1 041407328-0020	1st Flr Lobby S Ctr Area - Blown In Insulation	Brown Fibrous Homogeneous	80%	Cellulose	20% Non-fibrous (other)	None Detected
HA: 303						
303-2 041407328-0021	1st Flr Above Vault - Blown In Insulation	Brown Fibrous Homogeneous	80%	Cellulose	20% Non-fibrous (other)	None Detected
HA: 303						
303-3 041407328-0022	1st Flr Above Conf. Rm Clg. - Blown In Insulation	Brown Fibrous Homogeneous	80%	Cellulose	20% Non-fibrous (other)	None Detected
HA: 303						
304-1 041407328-0023	E & Ctr Window Lobby - Interior Window Glazing	Gray/White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
HA: 304						

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Sample	Description	Appearance	% Fibrous	Non-Asbestos		% Type
				% Non-Fibrous		
304-2 041407328-0024	NE Window Lobby - Interior Window Glazing	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)		None Detected
HA: 304						
305-1 041407328-0025	2nd Flr Kitchen N Wall - Green w. Black Backing Wall Paper	Black/Green Fibrous Homogeneous	40%	Cellulose	60% Non-fibrous (other)	None Detected
HA: 305						
305-2 041407328-0026	2nd Flr Kitchen S Wall - Green w. Black Backing Wall Paper	Black/Green Fibrous Homogeneous	40%	Cellulose	60% Non-fibrous (other)	None Detected
HA: 305						
305-3 041407328-0027	2nd Flr Kitchen W Wall - Green w. Black Backing Wall Paper	Black/Green Fibrous Homogeneous	50%	Cellulose	50% Non-fibrous (other)	None Detected
HA: 305						
306-1 041407328-0028	1st Flr Clerks Office W Side - Floor Tile (Off White) Between Sub Floor	Gray Fibrous Homogeneous			90% Non-fibrous (other)	10% Chrysotile
HA: 306						
306-2 041407328-0029	1st Flr Lobby S Area - Floor Tile (Off White) Between Sub Floor					Stop Positive (Not Analyzed)
HA: 306						
306-3 041407328-0030	- Floor Tile (Off White) Between Sub Floor					Stop Positive (Not Analyzed)
HA: 306						

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
307-1 041407328-0031	1st Flr Clerks Office E Wall - Popcorn Wall Texture	Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 307					
307-2 041407328-0032	1st Flr Clerks Office S Wall - Popcorn Wall Texture	Gray/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 307					
307-3 041407328-0033	1st Flr Clerks Office W Wall - Popcorn Wall Texture	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 307					
308-1 041407328-0034	1st Flr Bathroom E Side - Popcorn Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 308					
308-2 041407328-0035	1st Flr Bathroom Ctr Area - Popcorn Ceiling	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 308					
308-3 041407328-0036	1st Flr Bathroom West Side - Popcorn Ceiling	Tan/White Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 308					
309-01 041407328-0037	1st Flr Bathroom West Side - Green Pattern Sheet Vinyl	Tan/Green Fibrous Homogeneous	5% Cellulose 5% Glass	90% Non-fibrous (other)	None Detected
HA: 309					

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Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	%	Non-Asbestos		Asbestos
				Fibrous	% Non-Fibrous	% Type
309-02 041407328-0038	1st Flr Bathroom Ctr Area - Green Pattern Sheet Vinyl	Tan Fibrous Homogeneous	8% 5%	Cellulose Glass	87% Non-fibrous (other)	None Detected
HA: 309						
310-01-Wallboard 041407328-0039	2nd Flr Bedroom #2 N Wall - Wallboard (Drywall)	Brown/Gray Fibrous Homogeneous	15%	Cellulose	85% Non-fibrous (other)	None Detected
HA: 310						
310-01-Texture 041407328-0039A	2nd Flr Bedroom #2 N Wall - Wallboard (Drywall)	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
HA: 310						
310-02-Wallboard 041407328-0040	2nd Flr Bedroom #2 S Wall - Wallboard (Drywall)	Brown/Gray Fibrous Homogeneous	15%	Cellulose	85% Non-fibrous (other)	None Detected
HA: 310						
310-02-Texture 041407328-0040A	2nd Flr Bedroom #2 S Wall - Wallboard (Drywall)	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
HA: 310						
310-03-Wallboard 041407328-0041	2nd Flr Bedroom #3 N Wall - Wallboard (Drywall)	Brown/Gray Fibrous Homogeneous	15%	Cellulose	85% Non-fibrous (other)	None Detected
HA: 310						
310-03-Texture 041407328-0041A	2nd Flr Bedroom #3 N Wall - Wallboard (Drywall)	White Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
HA: 310						

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
311-01-Floor Tile 041407328-0042	2nd Flr Hall Near Skylight - Tan. Brown Fl. Tile Mastic	Brown Non-Fibrous Homogeneous		92% Non-fibrous (other)	8% Chrysotile
HA: 311					
311-01-Mastic 041407328-0042A	2nd Flr Hall Near Skylight - Tan. Brown Fl. Tile Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 311					
311-02-Floor Tile 041407328-0043	Hall Room #1 - Tan. Brown Fl. Tile Mastic				Stop Positive (Not Analyzed)
HA: 311					
311-02-Mastic 041407328-0043A	Hall Room #1 - Tan. Brown Fl. Tile Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 311					
311-03-Floor Tile 041407328-0044	Bathroom #2 - Tan. Brown Fl. Tile Mastic				Stop Positive (Not Analyzed)
HA: 311					
311-03-Mastic 041407328-0044A	Bathroom #2 - Tan. Brown Fl. Tile Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
HA: 311					
312-01 041407328-0045	2nd Flr Bathroom #1 - Cream Sheet Vinyl	Gray/Cream Fibrous Homogeneous		85% Non-fibrous (other)	15% Chrysotile
HA: 312					

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Sample	Description	Appearance	%	Non-Asbestos		Asbestos
				Fibrous	Non-Fibrous	% Type
312-02 041407328-0046	2nd Flr Bathroom #1 - Cream Sheet Vinyl					Stop Positive (Not Analyzed)
			HA: 312			
313-01 041407328-0047	2nd Flr Bathroom #2 - Off White Sheet Vinyl	Gray/White/Black Fibrous Homogeneous	40%	Cellulose	60% Non-fibrous (other)	None Detected
			HA: 313			
313-02 041407328-0048	2nd Flr Bathroom #2 - Off White Sheet Vinyl	Gray/White/Black Fibrous Homogeneous	40%	Cellulose	60% Non-fibrous (other)	None Detected
			HA: 313			
314-01-Floor Tile 041407328-0049	2nd Flr Hall Near Skylight - 12" Light Gray Mottled Fl. Tile Mastic	White Non-Fibrous Homogeneous			97% Non-fibrous (other)	3% Chrysotile
			HA: 314			
314-01-Mastic 041407328-0049A	2nd Flr Hall Near Skylight - 12" Light Gray Mottled Fl. Tile Mastic	Black/Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
			HA: 314			
314-02-Floor Tile 041407328-0050	2nd Flr N Hall Area - 12" Light Gray Mottled Fl. Tile Mastic					Stop Positive (Not Analyzed)
			HA: 314			
314-02-Mastic 041407328-0050A	2nd Flr N Hall Area - 12" Light Gray Mottled Fl. Tile Mastic	Black/Yellow Non-Fibrous Homogeneous			100% Non-fibrous (other)	None Detected
			HA: 314			

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
315-01 041407328-0051	Exterior E Side S Window - Window Glazing	Gray Non-Fibrous Homogeneous		98% Non-fibrous (other)	2% Chrysotile
HA: 315					
315-02 041407328-0052	Exterior E Side N Window - Window Glazing				Stop Positive (Not Analyzed)
HA: 315					
315-03 041407328-0053	Exterior N Side Window - Window Glazing				Stop Positive (Not Analyzed)
HA: 315					

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**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com>cinnaslab@EMSL.com

EMSL Order: 041407328
CustomerID: AMEC99
CustomerPO: 779980001.0003
ProjectID:

Attn: **Phillip Applegate**
AMEC E&I, Inc.
11003 Bluegrass Parkway
690 Commonwealth Center
Louisville, KY 40299

Phone: (502) 267-0700
Fax: (502) 267-5900
Received: 03/24/14 9:00 AM
Analysis Date: 3/26/2014
Collected: 3/20/2014

Project: 779980001.0003.10 / Cumberland, KY / City Hall

The samples in this report were submitted to EMSL for analysis by Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy. The reference number for these samples is the EMSL Order ID above. Please use this reference number when calling about these samples.

Report Comments:

Sample Receipt Date:: 3/24/2014 Sample Receipt Time: 9:00 AM
Analysis Completed Date: 3/26/2014 Analysis Completed Time: 11:53 AM

Analyst(s):

Adam Gart PLM (17)

Brittany Brown PLM (36)

Samples reviewed and approved by:

Stephen Siegel, CIH, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from 03/26/2014 14:12:38



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

041407328

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Company: <u>AMEC EGI</u>		EMSL-Bill to: <input type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>14003 Bluegrass Pkwy</u>		Third Party Billing requires written authorization from third party	
City: <u>Louisville</u>	State/Province: <u>KY</u>	Zip/Postal Code: <u>40299</u>	Country: <u>USA</u>
Report To (Name): <u>Phillip Applegate</u>		Telephone #: <u>(502) 267-0700</u>	
Email Address: <u>phillip.applegate@amec.com</u>		Fax #: <u>N/A</u>	Purchase Order:
Project Name/Number: <u>779980007.0003.10</u>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken:		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.			
PLM - Bulk (reporting limit)		TEM - Bulk	
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NIOSH 9002 (<1%) <input type="checkbox"/> NY ELAP Method 198.1 (friable in NY) <input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY) <input type="checkbox"/> OSHA ID-191 Modified <input type="checkbox"/> Standard Addition Method		<input type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 <input type="checkbox"/> NY ELAP Method 198.4 (TEM) <input type="checkbox"/> Chatfield Protocol (semi-quantitative) <input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2 <input type="checkbox"/> TEM Qualitative via Filtration Prep Technique <input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique	
		Other	
<input checked="" type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		Date Sampled: <u>3/20/14</u>	
Samplers Name: <u>Phillip Applegate</u>		Samplers Signature: <u>[Signature]</u>	
Sample #	HA #	Sample Location	Material Description
100-01	100	1st Floor Conference Rm NW Wall Plaster	(Walls & Ceilings)
100-02	100	2nd Floor - Room #1 NW Wall	"
100-03	100	2nd Floor Pantry Room Wall	"
100-04	100	2nd Floor Bedroom #3 Chimney wall	"
100-05	100	" " Living Room East Wall	"
200-1	200	Basement S. Area on metal ductwork	White Duct Tape
200-2	200	" " " " " "	" " " "
200-3	200	" " " " " "	" " " "
201-1	201	1st Fl. Lobby S. Ctr Area (Above 2 Ceilings)	White Covering
201-2	201	" " " " " "	" " " "
Client Sample # (s):		Total # of Samples: <u>530</u>	
Relinquished (Client): <u>[Signature]</u>		Date: <u>3/21/14</u>	Time: <u>18:30</u>
Received (Lab): <u>Lab EMSL</u>		Date: <u>3/24/14</u>	Time: <u>9:00</u>
Comments/Special Instructions: <u>Stop @ 1st @ Sample each HX#</u>			



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Bulk Building Material

Chain of Custody

EMSL Order Number (Lab Use Only):

041407328

EMSL ANALYTICAL, INC.

200 ROUTE 130 NORTH

CINNAMINSON, NJ 08077

PHONE: (800) 220-3675

FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

779980001, 00031010 Chamberland Liberty Hall

Sample #	HA #	Sample Location	Material Description
201-3	201	1ST FL. Clerks OF. N. Ctr Area (above ceiling) White Covering	
202-1	202	2ND FL. Bedroom #3 Duct Chase E Wall White Material	
300-1	300	① Basement Abandoned Furnace	Gasket Material
" -2	300	" " "	" "
301-1	301	Basement Ceiling Ltr Area	Drywall Sheeting
" -2	301	" " " N. Ctr Area	" " "
302-1	302	2x4 Furred Pinkie Ceiling Tile 1ST FL. S Ctr Area Lobby	
" -2	302	" " " " " " 1ST FL. Ctr Area Clerks OF.	
" -3	302	" " " " " " 1ST FL. Ctr Area Conf Rm	
303-1	303	Blown-in Insulation 1ST FL. Lobby S. Ctr Area	
" -2	303	" " " " " " 1ST FL. Above Vault	
" -3	303	" " " " " " 1ST FL. Above Conf Rm Cfg.	
304-1	304	E Window Lobby	Window Glazing
304-2	304	NE Window Lobby	" "
305-1	305	2ND FL. Kitchen N wall	Green w/ Black Backing wall paper
305-2	305	" " " S. Wall	" " "
305-3	305	" " " W. Wall	" " "
306-1	306	1ST FL. Clerks Office W. Side Floor Tile (off white) between	
" -2	306	" " " Lobby S. Area	" " " " " Sub fl.
307-1	307	1ST FL. Clerk OF. E Wall	Popcorn Wall Texture
" -2	307	" " " office S wall	" " "
" -3	307	" " " W. wall	" " "
308-1	308	1ST FL. Bathroom E Side	Popcorn Ceiling
" -2	308	" " " Ctr Area	" "
<p>*Comments/Special Instructions:</p> <p>Stop @ 1st (+) Sample in each HA group #</p>			



EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

041407329

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information.

779980001.0003.10

Camden R4 City Hall

Sample #	HA #	Sample Location	Material Description
308-3	308	1 st Fl. Bathroom, west side	Popcorn Ceiling
309-01	309	1 st Fl. Bathroom, west side	Green Pattern Sheet Vinyl
" 02	309	" " " Ctr Area	" " " " "
310-01	310	2 nd Fl. Bedroom #2 N. Wall	Wallboard (Drywall)
" -02	310	" " " " S. Wall	" " "
" -03	310	" " " Bedroom #3 N. Wall	" " "
311-01	311	2 nd Fl. Hall near Skylight	9" Tan/Brown Fl. Tile Mosa
" -02	311	" Hall Room #1	" " " " "
" -03	311	" Bathroom #2	" " " " "
312-01	312	2 nd Fl. Bathroom #1	Cream Sheet Vinyl
" -02	312	" " " " "	" " " " "
313-01	313	2 nd Fl. Bathroom #2	Off White Sheet Vinyl
" -02	313	" " " " "	" " " " "
314-01	314	2 nd Fl. Hall near Skylight	12" Light Gray Mottled Fl. Tile
" 02	314	" " " N. Hall Area	" " " " "
315-01	315	Exterior E Side S. Window	WINDO W 6 GLAZING
" -02	315	" " " E. Side N. Window	" " " " "
" -03	315	" " " N. Side Window	" " " " "

*Comments/Special Instructions:

Stop @ 1st @ Sample each HA#

LEAD BASED PAINT LABORATORY ANALYSIS SHEETS

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>cinnaminsonleadlab@emsl.com

EMSL Order: 201404425

CustomerID: LAWE520

CustomerPO:

ProjectID:

Attn: **Phillip Applegate**
AMEC E&I, Inc.
11003 Bluegrass Parkway
Suite 690
Louisville, KY 40299

Phone: (502) 253-2500
Fax: (502) 253-2501
Received: 03/24/14 9:38 AM
Collected: 3/20/2014

Project: 779980001.0003.10 / Cumberland KY City Hall

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client Sample Description	Lab ID	Collected	Analyzed	Lead Concentration
P-1	0001	3/20/2014	3/26/2014	0.43 % wt
Site: 2nd FL Window Sill, Kitchen, Green Paint				
P-2	0002	3/20/2014	3/26/2014	0.19 % wt
Site: 2nd FL Bedroom 4, Baseboard, Yellow Paint				
P-3	0003	3/20/2014	3/26/2014	0.016 % wt
Site: 2nd FL Bedroom 2, Wood Shelf White Paint				
P-4	0004	3/20/2014	3/26/2014	0.12 % wt
Site: 2nd FL Bedroom 3, Wood Door, White Paint				
P-5	0005	3/20/2014	3/26/2014	1.2 % wt
Site: 2nd FL Bedroom 3, Wood Window Frame, White/Brown				
P-6	0006	3/20/2014	3/26/2014	0.12 % wt
Site: 2nd FL W. Main Hall, Plaster Wall, Off White				
P-7	0007	3/20/2014	3/26/2014	0.45 % wt
Site: 2nd FL Den/Living Rm, Plaster Board Wall, Grn & Wht				
P-8	0008	3/20/2014	3/26/2014	0.095 % wt
Site: 2nd FL Bedroom #6, Plaster Board Wall, Brn & Red				
P-9	0009	3/20/2014	3/26/2014	0.23 % wt
Site: 1st FL Lobby Wall Plaster, White/Green				
P-10	0010	3/20/2014	3/26/2014	<0.011 % wt
Site: 1st FL Clerks Office Popcorn Wall, Brown Paint				
P-11	0011	3/20/2014	3/26/2014	<0.018 % wt
Site: 1st FL Hall, Wood Trim, Beige Paint				
P-12	0012	3/20/2014	3/26/2014	<0.041 % wt
Site: 1st FL Bathroom Wall Plaster, Yellow Paint				
P-13	0013	3/20/2014	3/26/2014	0.18 % wt
Site: 1st FL, Hall Door Wood Mauve Paint				
P-14	0014	3/20/2014	3/26/2014	<0.010 % wt
Site: Exterior Front Step, Concrete, Mauve Paint				
P-15	0015	3/20/2014	3/26/2014	0.064 % wt
Site: Exterior Front Brick Wall, Tan Paint				

Julie Smith - Laboratory Director
NJ-NELAP Accredited: 03036
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 03/26/2014 18:00:54

**EMSL Analytical, Inc.**

200 Route 130 North, Cinnaminson, NJ 08077

Phone/Fax: (856) 303-2500 / (856) 786-5974

<http://www.EMSL.com>cinnaminsonleadlab@emsl.com

EMSL Order: 201404425

CustomerID: LAWE520

CustomerPO:

ProjectID:

Attn: **Phillip Applegate**
AMEC E&I, Inc.
11003 Bluegrass Parkway
Suite 690
Louisville, KY 40299

Phone: (502) 253-2500
Fax: (502) 253-2501
Received: 03/24/14 9:38 AM
Collected: 3/20/2014

Project: 779980001.0003.10 / Cumberland KY City Hall

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

<i>Client Sample Description</i>	<i>Lab ID</i>	<i>Collected</i>	<i>Analyzed</i>	<i>Lead Concentration</i>
P-16	0016	3/20/2014	3/26/2014	<0.010 % wt
Site: Exterior East Side Concrete Step, Yellow				

Julie Smith - Laboratory Director
NJ-NELAP Accredited:03036
or other approved signatory

*Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.010 % wt based on the minimum sample weight per our SOP. Unless noted, results in this report are not blank corrected. EMSL bears no responsibility for sample collection activities. Samples received in good condition unless otherwise noted. * slight modifications to methods applied. "<" (less than) result signifies that the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. The QC data associated with the sample results included in this report meet the recovery and precision requirements established by the AIHA-LAP, unless specifically indicated otherwise

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NELAP Certifications: NJ 03036, NY 10872, PA 68-00367, AIHA-LAP, LLC ELLAP 100194, A2LA 2845.01

Initial report from 03/26/2014 18:00:54

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Lead (Pb) Chain of Custody

EMSL Order ID (Lab Use Only):

201404425

 EMSL ANALYTICAL, INC.
 300 N. 10th St.
 Louisville, KY 40202
 Phone: 502-220-3675
 Fax: 502-220-3674

Company: <u>AMEC EBI</u>		EMSL-Bill to: <input type="checkbox"/> Same <input type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: <u>11,003 Bluegrass Pkwy</u>		Third Party Billing requires written authorization from third party	
City: <u>Louisville</u>	State/Province: <u>KY</u>	Zip/Postal Code: <u>40299</u>	Country: <u>USA</u>
Report To (Name): <u>Phillip Applegate</u>		Telephone #: <u>(502) 267-0700</u>	
Email Address: <u>phillip.applegate@amec.com</u>		Fax #: <u>N/A</u>	
Project Name/Number: <u>779980001.0003.10</u>		Purchase Order:	
U.S. State Samples Taken: <u>KY</u>		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
Turnaround Time (TAT) Options* - Please Check		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
*Analysis completed in accordance with EMSL's Terms and Conditions located in the Price Guide			
Matrix	Method	Instrument	Reporting Limit
Chips <input checked="" type="checkbox"/> % by wt. <input type="checkbox"/> mg/cm ² <input type="checkbox"/> ppm	SW846-7000B	Flame Atomic Absorption	0.01%
Air	NIOSH 7082	Flame Atomic Absorption	4 µg/filter
	NIOSH 7105	Graphite Furnace AA	0.03 µg/filter
	NIOSH 7300 modified	ICP-AES/ICP-MS	0.5 µg/filter
Wipe* <input type="checkbox"/> ASTM <input type="checkbox"/> non ASTM <input type="checkbox"/> *If no box is checked, non-ASTM Wipe is assumed	SW846-7000B	Flame Atomic Absorption	10 µg/wipe
	SW846-6010B or C	ICP-AES	1.0 µg/wipe
	SW846-7000B/7010	Graphite Furnace AA	0.075 µg/wipe
TCLP	SW846-1311/7000B/SM 3111B	Flame Atomic Absorption	0.4 mg/L (ppm)
	SW846-1131/SW846-6010B or C	ICP-AES	0.1 mg/L (ppm)
Soil	SW846-7000B	Flame Atomic Absorption	40 mg/kg (ppm)
	SW846-7010	Graphite Furnace AA	0.3 mg/kg (ppm)
	SW846-6010B or C	ICP-AES	2 mg/kg (ppm)
Wastewater Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	SM3111B/SW846-7000B	Flame Atomic Absorption	0.4 mg/L (ppm)
	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.7	ICP-AES	0.020 mg/L (ppm)
Drinking Water Unpreserved <input type="checkbox"/> Preserved with HNO ₃ pH < 2 <input type="checkbox"/>	EPA 200.9	Graphite Furnace AA	0.003 mg/L (ppm)
	EPA 200.8	ICP-MS	0.001 mg/L (ppm)
TSP/SPM Filter	40 GFR Part 50	ICP-AES	12 µg/filter
	40 GFR Part 50	Graphite Furnace AA	3.6 µg/filter
Other:			
Name of Sampler: <u>Phillip Applegate</u>		Signature of Sampler: <u>[Signature]</u>	
Sample #	Location	Volume/Area	Date/Time Sampled
P-1	2ND FL Window Sill Kitchen Green Paint	2 sq inches	3/20/14 1500
P-2	2nd Fl. Bedroom #1 Baseboard Yellow Paint		
P-3	" " " #2 Wood Shelf White Paint		
P-4	" " Bedroom #3 Wood Door White Paint		
P-5	2ND FL Bedroom #3 Wood Window Frame White/Brown		
Client Sample #'s: <u>P-1 to P-16</u>		Total # of Samples: <u>16</u>	
Relinquished (Client): <u>[Signature]</u>	Date: <u>3/21/14</u>	Time: <u>1830</u>	
Received (Lab): <u>[Signature]</u>	Date: <u>3/24/14</u>	Time: <u>938 A.M.</u>	
Comments: <u>analyze all samples % by weight per</u>			

201404425

779980001.0003.0001.10

Camden Land ~~to~~ City Hall

[illegible]

Comments/Special Instructions:

RECEIVED
CIVIL ENGINEERING
2018 MAR 24 A 4:38